CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/SJ/W.No.02/WMM/Gradation/2016-17 30.05.2016

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Mr. S. Jagadish,** Contractor, Bangalore.

Name of Work : Providing pot hole filling to Doddaballapura Main Road & Village area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/21/2016-17 Dated: 28.05.2016

Date of Testing : 30.05.2016

Material : WMM

Sample Location : WMM Mix Plant Oven Dry Wt (gm): 8105

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	210	210	2.6	97.4	95-100
22.4	2505	2715	33.5	66.5	60-80
11.2	1290	4005	49.4	50.6	40-60
4.75	1185	5190	64.0	36.0	25-40
2.36	985	6175	76.2	23.8	15-30
0.600	900	7075	87.3	12.7	8-22
0.075	800	7875	97.2	2.8	0-8

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Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Mr. S. Jagadish,** Contractor, Bangalore.
Name of the Work	Providing pot hole filling to Doddaballapura Main Road & Village area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	AEE/BBMP/YSD/AE-2/21/2016-17 Dated: 28.05.2016
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	30.05.2016

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	389	390	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	301	
4	Aggregate Impact value = percent fines	22.62	22.82	
	100* (W_3/W_1)%			22.72

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CTCE/BBMP/SJ/W.No.02/WMM/S-T/2016-17 30.05.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Mr. S. Jagadish,** Contractor, Bangalore.
Name of Work	Providing pot hole filling to Doddaballapura Main Road & Village area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	AEE/BBMP/YSD/AE-2/21/2016-17 Dated: 28.05.2016
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	30.05.2016

Civil Tech Consultants & Engineers Bangalore

Result : Flakiness Index = **11.23%**

Elongation Index = **13.05%**

Result : Combined Flakiness & Elongation index 24.28%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No: CTCE/BBMP/W.No.39/GNR/BC/Bitumen/2016-17 11.06.2016

BITUMEN CONTENT DETERMINATION OF BITUMINOUS CONCRETE MIX

As per IRC:SP:11-1984

CLIENT	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	**Mr. S. Jagadish,** Contractor, Bangalore.
NAME OF THE WORK	Providing pot hole filling to Doddaballapura Main Road & Village area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	AEE/BBMP/YSD/AE-2/21/2016-17 Dated: 28.05.2016
SAMPLE I/D	Pot hole filling to Roads in Doddaballapura Main Road & Village area in Ward No.02.
DATE OF TESTING	11.06.2016

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	472.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	27.50
7. Bitumen content in %	5.20	5.50
8. Average	5.35	

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Job No: CTCE/BBMP/W.No.39/GNR/BC/Bitumen/2016-17 11.06.2016

BITUMEN CONTENT AFTER GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

As Per IS 2386 and IRC:SP:11-1984

CLIENT	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	**Mr. S. Jagadish,** Contractor, Bangalore.
NAME OF THE WORK	Providing pot hole filling to Doddaballapura Main Road & Village area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	AEE/BBMP/YSD/AE-2/21/2016-17 Dated: 28.05.2016
SAMPLE I/D	Pot hole filling to Roads in Doddaballapura Main Road & Village area in Ward No.02.
DATE OF TESTING	11.06.2016

GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	44.35	9.36	9.36	90.64	79-100
9.5	33.15	6.99	16.35	83.65	70-88
4.75	70.26	14.82	31.17	68.83	53-71
2.36	67.25	14.19	45.36	54.64	42-58
1.18	50.22	10.59	55.96	44.04	34-48
0.6	53.32	11.25	67.20	32.80	26-38
0.3	45.65	9.63	76.84	23.16	18-28
0.15	40.22	8.49	85.32	14.68	12-20
0.075	40.26	8.49	93.81	6.19	4-10

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	36.32	7.69	7.69	92.31	79-100
9.5	48.21	10.20	17.89	82.11	70-88
4.75	66.32	14.04	31.93	68.07	53-71
2.36	70.22	14.86	46.79	53.21	42-58
1.18	75.26	15.93	62.72	37.28	34-48
0.6	42.32	8.96	71.67	28.33	26-38
0.3	32.32	6.84	78.51	21.49	18-28
0.15	26.21	5.55	84.06	15.94	12-20
0.075	39.69	8.40	92.46	7.54	4-10

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BITUMEN CONTENT DETERMINATION OF BITUMINOUS CONCRETE MIX

As per IRC:SP:11-1984

CLIENT	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	**Mr. S. Jagadish,** Contractor, Bangalore.
NAME OF THE WORK	Providing pot hole filling to Doddaballapura Main Road & Village area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	AEE/BBMP/YSD/AE-2/21/2016-17 Dated: 28.05.2016
SAMPLE I/D	Pot hole filling to Roads in Doddaballapura Main Road & Village area in Ward No.02.
DATE OF TESTING	13.06.2016

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	473
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	27.00
7. Bitumen content in %	5.20	5.40
8. Average	5.30	

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Job No: CTCE/BBMP/W.No.39/GNR/BC/Bitumen/2016-17 13.06.2016

BITUMEN CONTENT AFTER GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

As Per IS 2386 and IRC:SP:11-1984

CLIENT	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Mr. S. Jagadish, Contractor, Bangalore.
NAME OF THE WORK	Providing pot hole filling to Doddaballapura Main Road & Village area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	AEE/BBMP/YSD/AE-2/21/2016-17 Dated: 28.05.2016
SAMPLE I/D	Pot hole filling to Roads in Doddaballapura Main Road & Village area in Ward No.02.
DATE OF TESTING	13.06.2016

GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	45.25	9.55	9.55	90.45	79-100
9.5	35.15	7.42	16.96	83.04	70-88
4.75	71.22	15.03	31.99	68.01	53-71
2.36	68.25	14.40	46.39	53.61	42-58
1.18	52.32	11.04	57.42	42.58	34-48
0.6	52.12	11.00	68.42	31.58	26-38
0.3	42.25	8.91	77.33	22.67	18-28
0.15	39.62	8.36	85.69	14.31	12-20
0.075	41.22	8.70	94.39	5.61	4-10

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	35.26	7.45	7.45	92.55	79-100
9.5	49.21	10.40	17.86	82.14	70-88
4.75	65.25	13.79	31.65	68.35	53-71
2.36	71.23	15.06	46.71	53.29	42-58
1.18	72.23	15.27	61.98	38.02	34-48
0.6	42.22	8.93	70.91	29.09	26-38
0.3	33.12	7.00	77.91	22.09	18-28
0.15	28.15	5.95	83.86	16.14	12-20
0.075	39.62	8.38	92.24	7.76	4-10

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SAMPLE I/D	Pot hole filling to Roads in Doddaballapura Main Road & Village area in Ward No.02.
DATE OF TESTING	16.06.2016

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1 Weight of Mixture before Test, g	500	500
2 Weight of Mixture after Test, g	474	473.5
3 Weight of Asphalt and Mineral matter Extracted, g	-	-
4 Weight of Mineral Matter, g.	-	-
5 Weight of Ash, g		
6 Weight of Bitumen Extracted, g. (corrected)	26	26.50
7 Bitumen content in %	5.20	5.30
8 Average	5.25	

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BITUMEN CONTENT AFTER GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

As Per IS 2386 and IRC:SP:11-1984

CLIENT	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	**Mr. S. Jagadish,** Contractor, Bangalore.
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DATE OF TESTING	16.06.2016

GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	42.35	8.93	8.93	91.07	79-100
9.5	36.69	7.74	16.68	83.32	70-88
4.75	70.25	14.82	31.50	68.50	53-71
2.36	69.25	14.61	46.11	53.89	42-58
1.18	50.22	10.59	56.70	43.30	34-48
0.6	51.22	10.81	67.51	32.49	26-38
0.3	43.15	9.10	76.61	23.39	18-28
0.15	38.25	8.07	84.68	15.32	12-20
0.075	42.23	8.91	93.59	6.41	4-10

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	34.56	7.30	7.30	92.70	79-100
9.5	48.25	10.19	17.49	82.51	70-88
4.75	66.16	13.97	31.46	68.54	53-71
2.36	70.22	14.83	46.29	53.71	42-58
1.18	73.18	15.46	61.75	38.25	34-48
0.6	43.15	9.11	70.86	29.14	26-38
0.3	34.15	7.21	78.07	21.93	18-28
0.15	27.15	5.73	83.81	16.19	12-20
0.075	40.22	8.49	92.30	7.70	4-10

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REFERENCE	AEE/BBMP/YSD/AE-2/21/2016-17 Dated: 28.05.2016
SAMPLE I/D	Pot hole filling to Roads in Doddaballapura Main Road & Village area in Ward No.02.
DATE OF TESTING	16.06.2016

GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	42.35	8.93	8.93	91.07	79-100
9.5	36.69	7.74	16.68	83.32	70-88
4.75	70.25	14.82	31.50	68.50	53-71
2.36	69.25	14.61	46.11	53.89	42-58
1.18	50.22	10.59	56.70	43.30	34-48
0.6	51.22	10.81	67.51	32.49	26-38
0.3	43.15	9.10	76.61	23.39	18-28
0.15	38.25	8.07	84.68	15.32	12-20
0.075	42.23	8.91	93.59	6.41	4-10

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	34.56	7.30	7.30	92.70	79-100
9.5	48.25	10.19	17.49	82.51	70-88
4.75	66.16	13.97	31.46	68.54	53-71
2.36	70.22	14.83	46.29	53.71	42-58
1.18	73.18	15.46	61.75	38.25	34-48
0.6	43.15	9.11	70.86	29.14	26-38
0.3	34.15	7.21	78.07	21.93	18-28
0.15	27.15	5.73	83.81	16.19	12-20
0.075	40.22	8.49	92.30	7.70	4-10

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